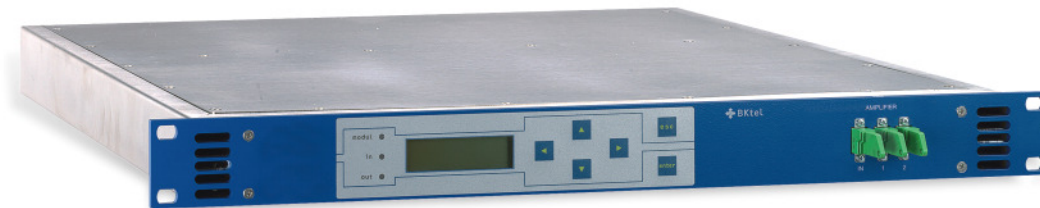


OVnxxx

OPTICAL AMPLIFIER FOR 1550 NM

Application



- ▶ Amplification of 1550 nm optical signals on single mode fibers
- ▶ Output powers of 13... 25 dBm

Features

- ▶ Erbium doped fiber amplifier technology
- ▶ 980 nm / 1480 nm pump laser diode(s)
- ▶ Constant gain or output power control
- ▶ Redundancy (2 pump lasers) optional for power levels starting from 16.5 dBm
- ▶ Input and output monitors
- ▶ Optional measurement unit for SBS threshold of succeeding fiberoptic links (SBS detection)
- ▶ Dual, hot-plug-in power supply modules for 100...240 VAC or $\pm 36... \pm 72$ VDC
- ▶ Ethernet - Web and -SNMP Interface (a-Version)
- ▶ RS232/RS485 control interface (b-Version)
- ▶ LC display
- ▶ General purpose I/O interface for remote functions
- ▶ LED status indication
- ▶ Very thin design, only 1 rack unit [U]

General Technical Data

Input signal wavelength	[nm]	1550 ± 10
Wavelength of pump lasers (typ.)	[nm]	980 / 1480
Min. optical output level	[dBm]	≈ 0.0 (*)
Optical return loss	[dB]	> 40
Min. optical input level	[dBm]	- 6
Max. opt. input level	[dBm]	+ 6
Polarization dependent gain	[dB]	< 0.2
Noise figure (@Pin= 0dBm, λ=1555nm)	[dB]	< 5.0
Residual pump power (input and output)	[dBm]	< -10

(*) **Note: min. P_{out} ≥ 0.0 dBm**

Electrical and Mechanical Properties

Opt. Connector	any type of high return loss connectors front side mounted	
Optical fiber	standard singlemode 9/125 μm	
Climatic Specification		
Operation	ETS 300 019, class 3.1	
Storage	ETS 300 019, class 1.2	
EMI	EN50083-2 (April 1996) EN50083-2 /A1 (February 1998)	
Power Supply	100...240 VA	
Dual redundant, hot pluggable	or ±36...±72 VDC	
Power Consumption	[W]	30 ... 60 W
Enclosure	19" / 1 rack unit [U] (optimal compatible to ETSI or JIS standards)	
Weight	[kg]	9.7

OVxxxx-standard EDFA - individual data for laser class 1M version

Version	Optical output power [dBm]	Version	Optical output power [dBm]
OV1130	1 x 13.0±0.5	OV1165	1 x 16.5±0.5
OV2130	2 x 13.0±0.5	OV2165	2 x 16.5±0.5
OV4130	4 x 13.0±0.5	OV3165	3 x 16.5±0.5
OV6130	6 x 13.0±0.5	OV8165	8 x 16.5±0.5
OV8130	8 x 13.0±0.5	OV4160	4 x 16.0±0.5
OV8145	8 x 14.5±0.5	OV1200	1 x 20.0±0.5
OV3150	3 x 15.0±0.5	OV2200	2 x 20.0±0.5
OV4150	4 x 15.0±0.5	OV4200	4 x 20.0±0.5
OV6150	6 x 15.0±0.5	OV2210	2 x 21.0±0.5

OVxxxx-standard EDFA - individual data for laser class 3B version

Version	Optical output power [dBm]	Version	Optical output power [dBm]
OV1220	1 x 22.0 ±0.5	OV1240	1 x 24.0 ±0.5
OV1230	1 x 23.0 ±0.5	OV1250	1 x 25.0 ±0.5

Ordering Information

For more information on this product please contact BKtel communications. Properties for ordering optical amplifier OVxxx:

Number of outputs	1	1
	2	2 (max 20.0 dBm)
	3	3 (max 20.0 dBm)
	4	4 (max 20.0 dBm)
	6	6 (max 16.5 dBm)
	8	8 (max 16.5 dBm)
Optical output power	130	+ 13.0 dBm (max 8 outputs)
	145	+ 14.5 dBm (max 8 outputs)
	150	+ 15.0 dBm (max 8 outputs)
	160	+ 16.0 dBm (max 8 outputs)
	165	+ 16.5 dBm (max 8 outputs)
	200	+ 20.0 dBm (max 4 output)
	220	+ 22.0 dBm (max 1 output)
	230	+ 23.0 dBm (max 1 output)
	240	+ 24.0 dBm (max 1 output)
	250	+ 25.0 dBm (max 1 output)
Optical testpoint	0	No
	2	Yes, +2 dBm
SBS-detection	0	No
	1	yes
Internal redundancy	0	No
	R	Yes
NMS-Interface	A	HTTP/SNMP Ethernet
	B	RS485
Optical connector	1	E2000
	2	SC/APC
	3	FC/APC-NTT
	4	FC/APC-JDS
	5	SC/APC with shutter
	6	FC/PC-NTT
Optical input / optical output	F	on front side
	R	on rear side
Version	0	BKtel
	OEM	OEM
Power supply	230/230	2 x (100 ... 240 VAC)
	48/48	2 x (36 ... 72 VDC)
	230	1 x (100 ... 240 VAC)
	48	1 x (36 ... 72 VDC)
	230/48	mixed 230 VAC / 48 VDC

